

**HIGH-CAPACITY NANOSTRUCTURED SILICON
AND LITHIUM ALLOYS THEREOF****Abstract of the Disclosure**

Electrodes comprising lithium alloyed with nanostructured silicon materials exhibit improved capacities, cycle lives, and/or cycling rates compared with similar electrodes made from bulk silicon. The electrodes do not require a conductive diluent such as carbon black. These electrodes are useful as anodes for secondary electrochemical cells, for example, batteries and electrochemical supercapacitors.

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